

NGINX in a managed hosting environment



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```
1. rgutsch@jumphost: ~ (bash)
Roland/Presentation $ tree -L 2
.
├── 01-introducing_syseleven
│   └── company_facts.conf
├── 02-introducing_our_products
│   ├── 01-cloud
│   ├── 02-metakube
│   ├── 03-managed_hosting
│   └── 04-carrier_services
├── 03-NGINX@syseleven
│   ├── 01-NGINX_ingress_controller
│   └── 02-NGINX_in_managed_hosting
└── 04-demosession
    ├── 01-demo_metakube
    └── 02-demo_managed_hosting

12 directories, 1 file
Roland/Presentation $
```

```
1. rgutsch@jumphost: ~ (bash)
Roland/Presentation $ cat 01-introducing_syseleven/company_facts.conf
syseleven {
    employees 110;
    headquarter Berlin_Germany;
    years_existing 11;
    customers ~400;
    CPUs 15,000;
    RAM 32TB;
    storage 5PB;
    support 24/7;
    premium_hosting true;
    # The Federal Office for Information Security
    # (Bundesamt für Sicherheit in der Informationstechnik, abbreviated as B
SI)
    # is the German upper-level federal agency in charge of managing
    # computer and communication security for the German government
    bsi_certification true;
}
Roland/Presentation $
```



```
1. rgutsch@jumphost: ~ (bash)
Roland/Presentation $ cat 02-introducing_our_products/01-cloud/openstack.conf
products {
    SysEleven Stack {
        cloud_gateways nginx+;
        base openstack;
        regions 2;
        storage_availability_zones_in_all_regions true;
        usp cloud_made_in_germany;
    }
}
Roland/Presentation $
```

```
1. rgutsch@jumphost: ~ (bash)
Roland/Presentation $ cat 02-introducing_our_products/02-metakube/kubernetes
_on_openstack.conf
products {
    MetaKube {
        ingress_controller nginx;
        base kubernetes;
        cluster_management syseleven;
        support at_office_hours;
        minutes_to_first_cluster 5;

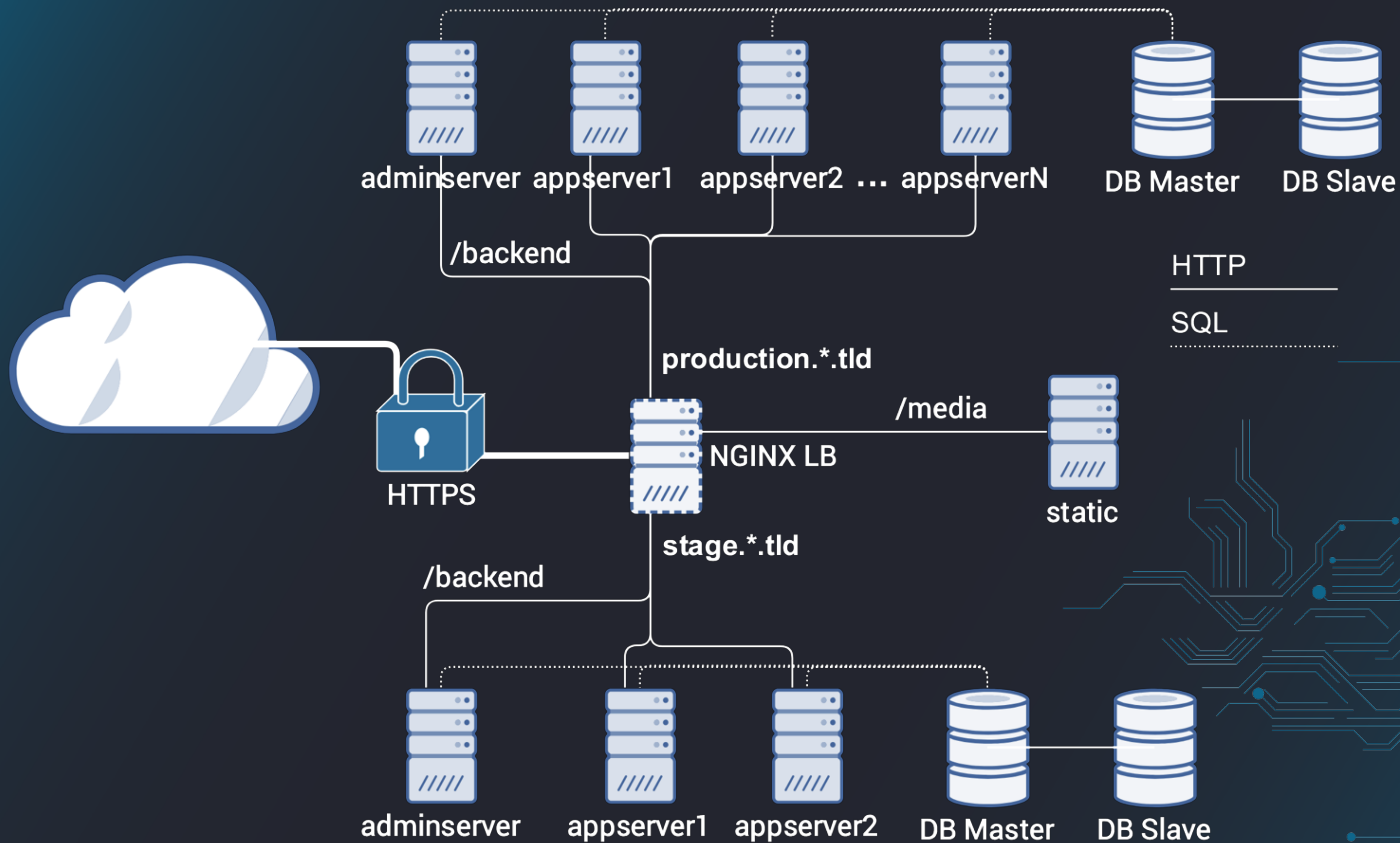
        usp managed_kubernetes_on_openstack;
    }
}
Roland/Presentation $
```

```
1. rgutsch@jumphost: ~ (bash)
Roland/Presentation $ cat 02-introducing_our_products/03-managed_hosting/fai
lsafe_setups.conf
products {
    Managed Hosting {
        nginx_installations ~700;
        base virtuozzo;
        bsi_certification true;
        virtual_environments ~3000;
    }
}
Roland/Presentation $
```



```
1. rgutsch@jumphost: ~ (bash)
Roland/Presentation $ cat 02-introducing_our_products/04-carrier_services/en
terprise_grade_internet_connection.conf
products {
  Network Carrier {
    redundant_glass_fibre_ring true;
    peering 400Gbit/s;
    amount_peerings ~300;
    DE-CIX_status certified_partner;
  }
}
Roland/Presentation $
```

```
1. rgutsch@jumphost: ~ (bash)
Roland/Presentation $ cat 03-NGINX\@syseleven/01-NGINX_ingress_controller/in
gress_controller.conf
nginx {
    ingress_controller_facts {
        # Rules for incoming connections to pods
        # Does not need internal IP addresses to communicate with the pods
        ingress_controller nginx;
    }
    ingress_controller_features {
        # Ability to automatically add and remove new pods
        service_discovery true;
        auto_reload_config true;
    }
    nginx_plus_ingress_controller {
        on-the-fly-reconfiguration true;
        health_checking true;
    }
}
Roland/Presentation $
```

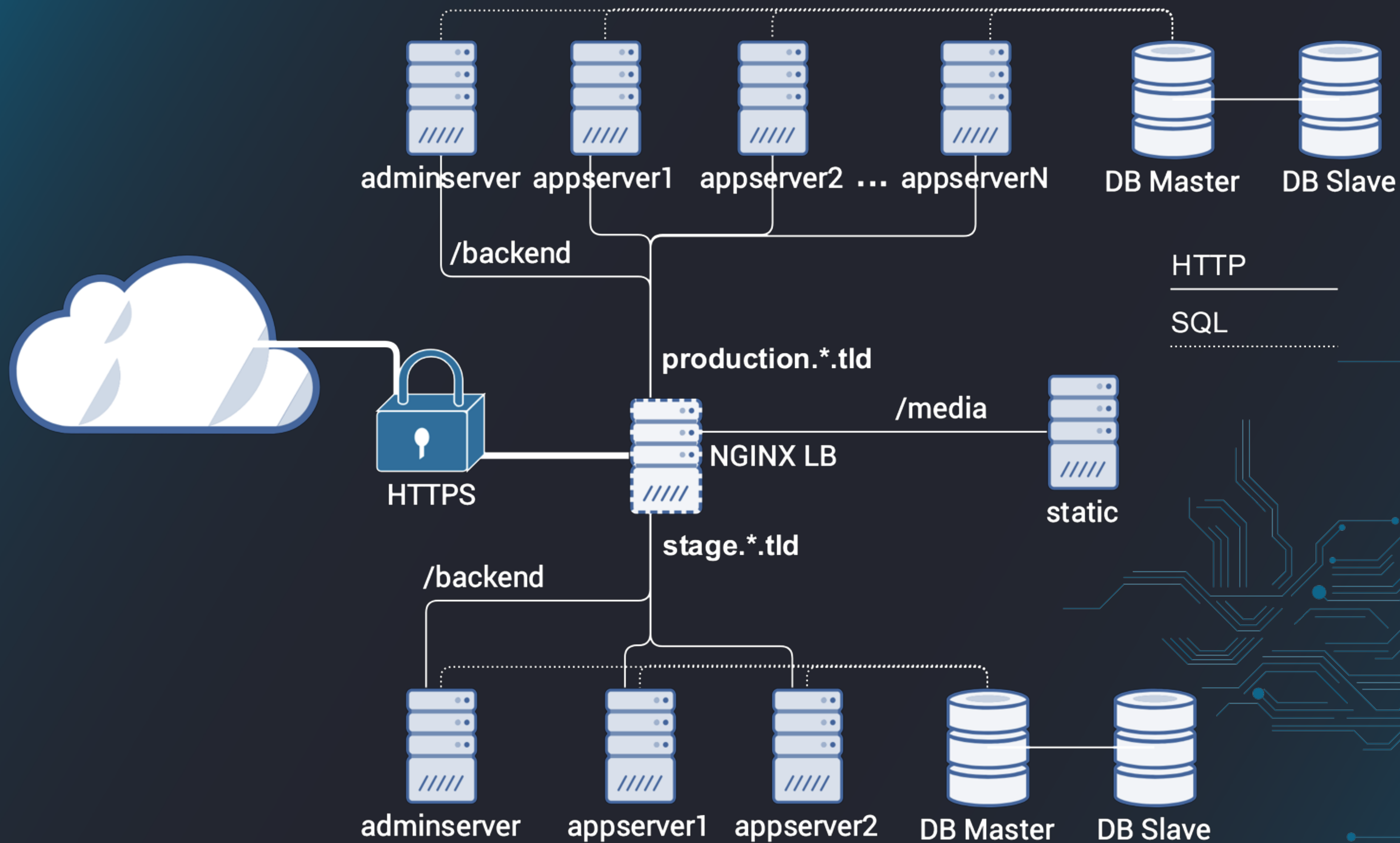
```
1. rgutsch@jumphost: ~ (bash)
Roland/Presentation $ cat 03-NGINX\@syseleven/02-NGINX_in_managed_hosting/02-
-loadbalancing_in_setups/01-configuration/nginx.conf
loadbalancer {
    method round_robin;
    vhosts_per_instance_up_to ~300;
    tls_offloading true;
    proxy_cache true;
    basic_auth true;
    whitelisting true;
}
Roland/Presentation $
```



```
1. rgutsch@jumphost: ~ (bash)
Roland/Presentation $ cat 03-NGINX\@syseleven/02-NGINX_in_managed_hosting/02
-loadbalancing_in_setups/02-upscaling_downscaling/*
# our challenges are traffic peaks
# due to TV or newsletter advertisements or DDOS attacks
# solutions:
upscale horizontal {
    build appservers;
    upstream add_appservers;
}
upscale vertical {
    diagnose customer;
    add vcpus;
    add vram;
}
Roland/Presentation $ █
```



```
1. rgutsch@jumphost: ~ (bash)
Roland/Presentation $ cat 03-NGINX\@syseleven/02-NGINX_in_managed_hosting/02-
loadbalancing_in_setups/03-caching/caching.conf
location ~* \.(jpg|jpeg|gif|png|ico|css|js|svg|woff|woff2|ttf)$ {
    cache_live_environment true;
    cache_static_assets true;
    cache_stage_environment for_testing_purposes;
    bypass_cache true;
    allow_cache_purges true;
}
Roland/Presentation $
```



Demo session MetaKube



Demo session Managed Hosting



Questions and Answers



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